

Appl. No. : 09/965,054
Filed : September 26, 2001

AMENDMENTS TO THE CLAIMS

Please amend the Claims as follows. Insertions are shown underlined while deletions are ~~struck-through~~.

1-4 (canceled)

5 (currently amended): A carcass ply producing method for producing a carcass ply constituting a carcass layer of a tire comprising:

supplying at least one ply cord by a supply head,
reciprocating said supply head along a widthwise direction of said carcass ply,
sticking said ply cord supplied by said supply head to a sticking body having a sticking surface,

reciprocating said sticking surface of said sticking body to move the sticking surface (i) in either the forward or backward direction along a longitudinal direction of said carcass ply, then (ii) with a forward movement at a pitch to arrange said at least one ply cord in substantially parallel lines on the sticking surface, and finally (iii) in the opposite of the previous forward or backward direction along the longitudinal direction of the carcass ply, wherein one widthwise reciprocating motion of said supply head occurs while one longitudinal reciprocating motion of (i) or (iii) of said sticking surface occurs, and

controlling a disposition angle of said ply cord with respect to said longitudinal direction by changing a moving amount of said sticking surface with respect to a moving amount of said supply head.

6 (original): The carcass ply producing method according to claim 5, wherein said sticking body is a rotation drum having an outer peripheral surface to which said ply cord is stuck.

7 (withdrawn): The carcass ply producing method according to claim 5, wherein said sticking body is a flat-plate like tray having a surface to which said ply cord is stuck.

8 (withdrawn): The carcass ply producing method according to claim 5, wherein said sticking body is a transfer conveyer having a transfer surface to which said ply cord is stuck.

9-15 (canceled)

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16 (previously presented): The carcass ply producing method according to claim 5, further comprising moving the supply head along the widthwise direction of the carcass ply at constant speed and controlling the moving amount of the sticking surface thereof based on a program.

17 (currently amended): A carcass ply producing method for producing a carcass ply constituting a carcass layer of a tire comprising:

supplying at least one ply cord by a supply head,
reciprocating said supply head along a widthwise direction of said carcass ply,
sticking said ply cord supplied by said supply head to a sticking body having a sticking surface,

reciprocating said sticking surface of said sticking body to move the sticking surface (i) in either the forward or backward direction along a longitudinal direction of said carcass ply, then (ii) with a forward movement at a pitch to arrange said at least one ply cord in substantially parallel lines on the sticking surface, and finally (iii) in the opposite of the previous forward or backward direction along the longitudinal direction of the carcass ply, wherein each parallel line positioned consecutively ~~being~~is formed consecutively, and

controlling a disposition angle of said ply cord with respect to said longitudinal direction by changing a moving amount of said sticking surface with respect to a moving amount of said supply head.

18 (previously presented): The carcass ply producing method according to claim 17, wherein said sticking body is a rotation drum having an outer peripheral surface to which said ply cord is stuck.

19 (previously presented but withdrawn): The carcass ply producing method according to claim 17, wherein said sticking body is a flat-plate like tray having a surface to which said ply cord is stuck.

20 (previously presented but withdrawn): The carcass ply producing method according to claim 17, wherein said sticking body is a transfer conveyer having a transfer surface to which said ply cord is stuck.

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21 (previously presented): The carcass ply producing method according to claim 17, further comprising moving the supply head along the widthwise direction of the carcass ply at constant speed and controlling the moving amount of the sticking surface thereof based on a program.

22 (previously presented): The carcass ply producing method according to Claim 17, wherein one widthwise reciprocating motion of said supply head occurs while one longitudinal reciprocating motion of said sticking surface occurs to consecutively form each parallel line positioned consecutively.